

What is claimed is:

1 1. A surface light source device, comprising:
2 a light guide plate having an incident end face, an
3 emitting face, at least one full-reflective
4 face, and a plurality of light adjusters,
5 wherein the full-reflective face reflects light
6 onto the incident end face for direction to the
7 emitting face and transmission through the light
8 guide plate, the light adjusters disposed in the
9 light guide plate with a density discontinuously
10 varied in at least one area of the light guide
11 plate to adjust the reflected light collection
12 for emission from different areas of the
13 emitting face to provide discontinuous light
14 intensity; and
15 a light source disposed in the vicinity of the
16 incident end face of the light guide plate to
17 provide light onto the incident end face of the
18 light guide plate.

1 2. The device as claimed in claim 1, wherein the
2 light adjusters are micro-reflectors.

1 3. The device as claimed in claim 1, wherein the
2 light adjusters are diffusers.

1 4. The device as claimed in claim 1, wherein the
2 light adjusters are micro-prisms.

1 5. The device as claimed in claim 1, wherein a
2 reflective layer is disposed on the full-reflective face

3 corresponding contrarily to the area formed by the
4 projection of the light adjusters parallel to the normal
5 direction of the emitting face onto the full-reflective
6 face.

1 6. The device as claimed in claim 5, wherein the
2 reflective layer comprises metal.

1 7. The device as claimed in claim 6, wherein the
2 reflective layer comprises silver or aluminum.

1 8. The device as claimed in claim 5, wherein the
2 reflective layer comprises white non-metallic material.

1 9. The device as claimed in claim 8, wherein the
2 reflective layer comprises magnesium oxide or titanium
3 oxide.

1 10. A flat panel display, comprising:
2 a display panel comprising at least two display areas
3 of different light transmittivity; and
4 a surface light source device comprising a light
5 guide plate and a light source, wherein the
6 light guide plate comprising an incident end
7 face, an emitting face, at least one full-
8 reflective face, and a plurality of light
9 adjusters,
10 wherein the full-reflective face completely
11 reflects the light incident onto the
12 incident end face for direction to the
13 emitting face and transmission through the
14 light guide plate, and the light adjusters

15 are disposed in the light guide plate at
16 the location corresponding to the display
17 areas of the display panel, with a density
18 discontinuously varied in at least one area
19 of the light guide plate to adjust the
20 reflected light collection for emission
21 from the different areas of the emitting
22 face, such that brightness of one side
23 field of view is uniform, and
24 the light source is disposed in the vicinity of
25 the incident end face of the light guide
26 plate to provide light for onto the
27 incident end face of the light guide plate.

1 11. The flat panel display as claimed in claim 10,
2 wherein the display panel comprises at least one semi-
3 transmissive area and at least one transmissive area, the
4 semi-transmissive area comprising one more semi-reflective
5 layer than the transmissive area.

1 12. The flat panel display as claimed in claim 10,
2 wherein the display panel comprises at least one semi-
3 transmissive area and at least one reflective area,
4 wherein the semi-transmissive area has a semi-reflective
5 layer and the reflective area has a reflective layer.

1 13. The flat panel display as claimed in claim 10,
2 wherein the light adjusters are micro-reflectors.

1 14. The flat panel display as claimed in claim 10,
2 wherein the light adjusters are diffusers.

1 15. The flat panel display as claimed in claim 10,
2 wherein the light adjusters are micro-prisms.

1 16. The flat panel display as claimed in claim 10,
2 wherein a reflective layer is disposed on the full-
3 reflective face corresponding contrarily to the area
4 formed by the projection of the light adjusters parallel
5 to the normal direction of the emitting face onto the
6 full-reflective face.

1 17. The flat panel display as claimed in claim 16,
2 wherein the reflective layer comprises metal.

1 18. The flat panel display as claimed in claim 17,
2 wherein the reflective layer comprises silver or aluminum.

1 19. The flat panel display as claimed in claim 16,
2 wherein the reflective layer comprises white non-metallic
3 material.

1 20. The flat panel display as claimed in claim 19,
2 wherein the reflective layer comprises magnesium oxide or
3 titanium oxide.